

## IUBMB Enzyme Nomenclature

## EC 3.5.1.4

**Common name:** amidase

**Reaction:** A monocarboxylic acid amide + H<sub>2</sub>O = a monocarboxylate + NH<sub>3</sub>

**Other name(s):** acylamidase; acylase; amidohydrolase; deaminase; fatty acylamidase; N-acetylaminohydrolase

**Systematic name:** acylamide amidohydrolase

**Links to other databases:** [BRENDA](#), [EXPASY](#), [KEGG](#), [UM-BBD](#), [WIT](#), CAS registry number: 9012-56-0

**References:**

1. Bray, H.G., James, S.P., Raffan, I.M., Ryman, B.E. and Thorpe, W.V. The fate of certain organic acids and amides in the rabbit. 7. An amidase of rabbit liver. *Biochem. J.* 44 (1949) 618-625.
2. Bray, H.G., James, S.P., Thorpe, W.V. and Wasdell, M.R. The fate of certain organic acids and amides in the rabbit. 11. Further observations on the hydrolysis of amides by tissue extracts. *Biochem. J.* 47 (1950) 294-299.

[EC 3.5.1.4 created 1961]

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